

# FOLIO

19 APRIL 1991

## Tuition fees will rise

### STUDENTS UNHAPPY WITH POLICY

Advanced Education Minister John Gogo announced his department's new tuition policy last week. Maximum annual average increases for 1991-92 will be \$200 for universities and hospital schools of nursing and \$100 for public colleges and technical institutes.

Fees that will be covered by the policy include tuition fees and other board-approved fees such as library or computer fees that are instruction related. Institutions' net operating expenses paid by students through fees for instruction will be allowed to rise to a maximum of 20 percent.

The Minister has also given institutions the ability, within the 20 percent limit, to set individual program fees. It's expected it will take many of the institutions several years to reach the 20 percent limit.

ing the system in the first place because of a reluctance to go deeply into debt to finance their education? Ross also worried about how institutions' net operating expenses would be calculated.

The government policy document stated that the 20 percent figure represents a reasonable mid-point between current student contributions and recommendations put forward by, for example, the [Ontario] Bovey Commission Report which suggested students should pay between 25 and 33 percent of the direct costs of their education.

Both student leaders said the visa student fee increases were wrong. According to Advanced Education's policy paper, visa students and their families do not contribute significantly to the provincial tax

their education. Tuition fees must go up, he said, but there must also be an increase in the direct assistance to those students who need assistance.

"There's nothing wrong with asking them [students] to contribute more to their education," he said, noting the higher earning power university graduates have compared to people without university education.

The provincial government also announced that 1991-92 assistance levels will be increased for undergraduate students from \$7,500 to \$7,800 per academic year. That will

be done by increasing the loan limits from \$5,000 to \$5,300 per academic year.

For graduate and professional students, annual loan limits will increase from \$7,500 to \$7,800 per academic year, and the lifetime loan limits for graduate and professional students will be increased from \$29,800 to a maximum of \$45,000.

Mustapha said all the loan increases mean is that fewer students will get bigger pieces of a smaller pie. The government's assistance to students has been steadily declining, he said.

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**"...WHILE THE INCREASES CAN BE CONSIDERED BY MANY PEOPLE TO BE LOGICAL, THERE STILL HAS TO BE BIG CHANGES TO THE SYSTEM. AND IT CAN'T ALL BE DONE ON THE BACKS OF STUDENTS."**

**SURESH MUSTAPHA**

Visa students who begin studying in the province in September 1991 will now have to pay double the fees Canadian students pay. Those visa students now in the system will continue to pay a 50 percent surcharge until the end of the 1993-94 school year.

U of A student leaders condemned the changes. Outgoing Students' Union President Suresh Mustapha said rather than using the 20 percent figure, the government should be looking at students' ability to pay. "If we are going to be paying more, we should have more of a say in how the money's spent. We are getting less and yet paying more."

Graduate Students' Association President Ken Ross said the 20 percent limit indicates a movement towards a more elitist system. He said many students in the system can afford the increases. But how many people will be deterred from enter-

base. Mustapha said the visa student increase really amounts to an attempt by the government to appease certain segments of the population. "We're talking borderline racism here."

Ross said the changes would mean that more visa students would be from their respective countries' upper middle classes. He said the changes were against stated General Faculties Council policy and would mean fewer students would come here to study. In addition to the sharing of ideas, Ross said if the government wants tangible examples of the benefits of the presence of visa students in Canada, it can think about future international contacts, trade and government links, and visa students' appreciation for Canada and Canadians.

In an interview that took place before the tuition fee announcement, Board of Governors Chair Stan Milner said students should be paying about one-third of the costs of



**THE FLIP SIDE OF STUDYING**  
Math student Andrew Buhr takes time to juggle more than his exam study sessions.

## INSIDE

- An interview with Stan Milner
- Licensing opportunities at U of A trumpeted at trade shows
- NASA perturbed by contract negotiations
- Greater Campus Transit Service Study



# Adapting to change most serious problem facing U of A, Milner says

The most serious problem facing the University of Alberta is whether or not it will be able to adapt to change, says the Board of Governors Chair Stan Milner.

"The University has grown up—as all organizations have during the boom times—to be quite comfortable and not realized that it may be on a downhill run," Milner told *Folio*, in an interview dealing with many of the issues facing the province's oldest University.

The University community has not really appreciated the feelings of the outside community during those times and, worse still, not been particularly concerned about it, he says.

"In looking ahead, one could see a challenge in the role as chairman, because of the changes that are go-

ing to take place in education—primarily because of the taxpayers' reluctance to continually write blank cheques," he says about his decision to accept the position at a time when the University is grappling with profound changes.

"In order to convince the public that we're worthy of their tax dollars, we must convince them that we're an efficient, well-managed organization," he says. "Hence, the concentration on the audit committee of the Board, the introduction of non-Board members on committees to involve the community, the movement of the Board to publish detailed financial statements and the move towards following generally accepted accounting principles."

Simply having to do with less money is only one aspect of the changes the University will have to deal with, says Milner, who as the President and CEO of Chieftain International Inc, an oil and gas industry player, has guided the company through the volatile international market to a profit in 1990.

An outspoken critic of those who have become overly reliant on government, Milner says there's no doubt the University will have to rely more on outside sources of funding and less on government. He says there's no question government has a significant role in ensuring the province has a good educational system. "The question in the taxpayers' mind is 'why the University of Alberta?'"

"We have technical schools, other universities and colleges to fund. Why us? We have to convince taxpayers we're deserving," he says. "One has to wonder if the University is doing such a good job, why has there been such a terrific growth in enrollment in the other institutions in the province?" he asks, adding that he is concerned that there may be a decline in the University's stature in the province and in Canada.

Milner, who served on City Council in the early '60s. He said he will continue to make the point that there has to be a recognition of the value of people's time and that meetings have to be efficient and yet still give people a chance to reach consensus.

Asked what the differences and similarities are between the corporate and university environment, Milner says, "In a corporation, board

## "THE WHOLE SYSTEM OF EMPLOYMENT AT THE UNIVERSITY SHOULD BE LOOKED AT TO ENSURE WE'RE MAKING EFFICIENT USE OF OUR RESOURCES."

On the issue of layoffs, Milner said in the longterm, the only way to avoid them is to convince donors to contribute to operating funds—and that would be an awfully tough sell. "The whole system of employment at the University should be looked at to ensure we're making efficient use of our resources." He points out that salaries account for such a large portion of the total University budget that unreasonably huge wage settlements will only make the situation worse.

The University system of governance, involving consensus, decisionmaking and committee work, has the advantage of keeping its people involved, but it also has the disadvantages of being cumbersome and time-consuming, says

members are looking at the good of the corporation as a whole. In a University board, some members feel they are to represent only one segment of the University, much like a ward system. Some members of the Board of Governors, I think, feel they are in a ward system."

Within the corporate world, it is generally easy to measure success, says the veteran of boards of directors of companies such as Canadian Imperial Bank of Commerce, Canadian Pacific Ltd, Alberta Energy Company Ltd, and Banister Continental Ltd. At a university, you see success only over a broad period of time, says Milner, who has also served on two hospital boards and

grappled with similar institutional issues, such as size and service functions.

On alumni relations, Milner, a supporter of the Faculty of Business, says some alumni work hard for the U of A, others are casually interested and many are disinterested. He attributes these feelings to "... the fundamental method of funding, in that most alumni feel that it was the government's responsibility to educate them. They feel that the next student will be funded by the government and they can spend their cash on holidays."

At American and European universities where students must pay a greater percentage of the costs of their education, students are more concerned about how their universities function, feel they are a more integral part of their universities and are more appreciative. They also feel they have obligations to their universities, says Milner.

What does the future hold for the U of A? Milner says it has to concentrate on its mission statement and be clear about where it is going. Obviously, his primary objective is to prevent any further decline in the stature of his alma mater (he received his BSc in 1951) and the second objective is to ensure that the institution is successful in its endeavours. "I'm not sure how we'll measure that success, whether in numbers or quality."

"It's an interesting and exciting time for the University. And obviously, you don't need managers if you haven't got problems, so I hope to make a positive contribution before I paddle my canoe off that shore and head some place else."

## CORRECTION

The 5 April issue of *Folio* stated that Chancellor Sandy Mactaggart would chair a committee charged with developing a strategic plan for the University. The committee will be headed by President Paul Davenport.

## FOLIO

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OFFICE OF PUBLIC AFFAIRS  
423 ATHABASCA HALL  
UNIVERSITY OF ALBERTA  
EDMONTON, ALBERTA T6G 2E8  
(403) 492-2325

MTS - TJMH PROFS - ZZOPA  
FAX - 492-2997

All enquiries and correspondence  
should be directed to:  
RON THOMAS: EDITOR  
MICHAEL ROBB: ASSISTANT EDITOR

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## Benefits of Bill C-22 still being sorted out

University officials are guarded in estimating just how much Bill C-22 has benefited the institution since it was passed in 1987. The bill gave pharmaceutical companies increased patent protection in exchange for an industry commitment to spend a larger proportion of their research money in Canada.

Associate Dean (Research) Mark Poznansky acknowledges that private-sector funding in the Faculty of Medicine has jumped from \$400,000 in 1984-85 to \$5.8 million in 1991-92. However, he says, "It's not clear how much of this money comes from the Bill C-22 initiative."

The majority of that money, he says, has come from Japanese, European, and American firms, not from Canadian companies taking advantage of C-22. Dr Poznansky instead attributes the increase to the fact that many new researchers have been hired in Medicine and are attracting strong support for their work.

Noting that the Faculty's proportion of the total Canadian MRC budget has increased from 3.5 percent to 5.8 percent in the last six years, he says, "We're doing something right, but I don't see a great

amount of recognition from the Canadian pharmaceutical industry."

In the Faculty of Pharmacy and Pharmaceutical Sciences, Dean Richard Moskalyk sees C-22 benefits as a matter of timing. "We have not reaped significant benefits yet," he says, "but I am confident that we are going to."

He points out that a company's research funding must be related to product development in order to qualify under C-22; because of that requirement, a good deal of C-22 money has gone into clinical research, more likely to be done in medical than in pharmacy faculties. Now, however, companies are realizing that in order to meet their Canadian spending commitments, they will have to invest more widely in other kinds of work as well.

To tap that shift for the benefit of Pharmacy, Dean Moskalyk is working to develop more direct links with Canadian pharmaceutical companies. He says, "It's not a matter of them simply spreading their money around because of Bill C-22. They're still going to look for the best researchers and the best place to put their money, so we have to go sell ourselves and convince them that we're the best."

## NEW DEPARTMENT CHAIRS APPOINTED

At the most recent meeting of the Board of Governors, the Board Educational Affairs Committee noted the appointment of a trio of Department Chairs and the reappointment of one Department Chair. The starting date, with the exception of the reappointed Chair, is 1 July 1991.

Emad-Eldin Aly will lead the Department of Statistics and Applied Probability. Dr Aly, whose appointment is for three years, experienced his first appointment at the University of Alberta in 1984. He is a graduate of Ain Shams University in Cairo (BSc, Honours; MSc) and Carleton University (MSc, PhD).

ED (Ted) Blodgett is the new Chair of the Department of Comparative Literature. He came to this University in 1966 with degrees from Amherst College and the University of Minnesota. In 1969, Rutgers University awarded him the PhD degree. Dr Blodgett is working on a number of projects, including *A Collection of Essays on Poetry and the Poet*; translation of *Flamenca* (Old Provençal); "The Question of the Subject in Ethnic Canadian Poetry"; and "Canada as Female/The U.S. as Male."

The reappointment is that of David Hall as Chair of the Department of History. Dr Hall joined the University of Alberta 20 years ago after following graduation from the then University of Alberta at Calgary. Among his research interests are: development of political parties in the District of Alberta from 1880-1905; the career of Frank Oliver; and Albertans and native peoples, 1880-1905. Dr Hall's reappointment is effective 1 July 1992; he will be on leave for the year preceding the starting date.

Ernest Kanasevich, the soon-to-be Chair of the Department of Physics, will be on semi-familiar ground because he served as Assistant Chair from 1967 to 1969 and from 1970 to 1973, and as Acting Chair in 1973-74. A University of British Columbia PhD, Dr Kanasevich's research interests are seismic imaging and geophysical exploration.

The appointments of Drs Blodgett, Hall, and Kanasevich are for five years.



# Getting our (licensing) licks in

## U OF A PROMOTES TECHNOLOGIES AT LARGE TRADE SHOWS

Licensing opportunities at the University of Alberta are getting higher-profile promotion at major international trade shows. This year, the Intellectual Property and Contracts Office has produced brief brochures to summarize the important features and market potential of U of A technologies ready for licensing. The brochures are a simple way to supplement standard trade-show presentations, and the idea is being imitated by other universities.

Licensing is one way to transfer research-generated technology from the laboratory to the marketplace. A licensing agreement gives a company the right to produce and distribute the technology, in exchange for covering certain costs and paying a royalty to the University on all future sales.

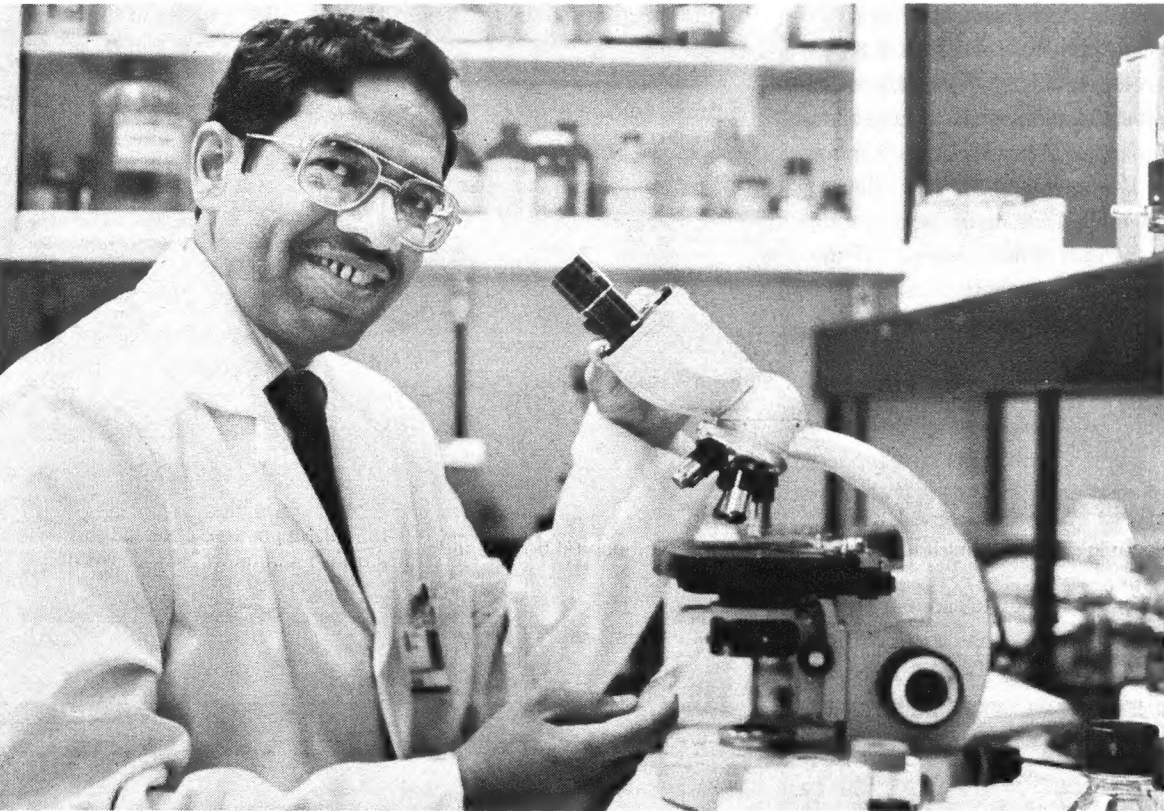
About a dozen researchers on campus have products or processes currently ready for licensing. They include chemical compounds, instruments and methods, and computer programs.

For example, John Vederas (Chemistry) (with Dr Lee Arnold) has developed a new reagent to be used in the Mitsunobu Reaction, which is a common procedure in the chemical synthesis of drugs and other fine chemicals. The new reagent is unusual in being nonexplosive, and it is much less expensive than others because it is recyclable—it can be reactivated and reused many times without losing its effectiveness.

A miniature electrode has been designed by Francis Witkowski (Cardiology) and Patricia Penkoske (Pediatrics and Surgery) for use in

cardiac monitoring equipment that is implanted into heart muscle. The electrode can measure normal and abnormal voltage levels in the heart, without itself disrupting the heart's electrical activity. The electrode also has potential applications in other scientific and industrial instrumentation.

Another research development involves a new vaccination procedure that promises to prevent juvenile diabetes. Developed by Bhagirath Singh (Immunology) and using synthetic peptides, the vaccination has successfully prevented this type of diabetes in genetically predisposed animals. The work holds tremendous clinical promise for humans who are predisposed to this type of diabetes, as well as for preventing a number of other autoimmune diseases.



Bhagirath Singh

## Power on!

### COMPUTER, LANGUAGE LEARNING WHOLLY COMPATIBLE

The University's language departments are looking forward to some innovative presentations at a computer-assisted language learning (CALL) conference to be held on campus 2 to 4 May.

Twenty speakers from Canada and the United States will discuss both the traditional forms of computer learning and new-generation programs that make the learning process much more creative.

Demonstrations will include the use of laser disc video players for teaching the classics and Chinese, said Manfred Prokop (Germanic Languages), co-director of the conference. Users watch a video and are then asked questions about it by the computer.

The main presenters at the conference were selected for their experience in designing and implementing CALL systems.

Timothy Pope from the University of Lethbridge will talk about his program that aids French, German, and Spanish composition. His program analyzes each sentence composed by a student and advises the student of grammatical errors.

Dr Prokop said that this type of program allows for more open-ended learning. Where students traditionally responded to questions on-screen by filling in the blanks or answering multiple-choice questions, state-of-the-art programs now ask them to compose whole sentences.

Computer-assisted language learning is suitable for students of many ages, but the conference is targeted at second-language teachers from secondary and postsecondary schools in western Canada. Representatives from elementary schools and Alberta Education are also expected to attend.

The conference is sponsored by the Departments of East Asian Languages and Literatures, Germanic Languages, Romance Languages, Slavic and East European Studies, and Linguistics.

For information on the conference, contact: Manfred Prokop, 300-B Arts Building, telephone 492-3271/3538.

## CURRENTS

### PROFESSIONAL DEVELOPMENT FOR APOs - INFORMATION SESSION

**Topic:** Office of Human Rights. **Date:** 24 April. **Time:** 10:30 am to noon. **Location:** Council Chamber, University Hall. **Presenter:** Fran Trehearne. **Cost:** Free, but advance registration required by 22 April deadline. **To register,** call Gail Bamber, 492-2796. While this session is directed at APOs, other interested staff are welcome.

### OPEN HOUSE AN OPPORTUNITY TO WISH RON FALCONER WELL

Ron Falconer is retiring after a 35-year career at the University of Alberta (he is currently Director of Pension and Benefits Administration). He will be honoured at an open house 26 April, 3 to 5 pm, in 2-02 Assiniboia Hall. Colleagues, friends and acquaintances of Mr Falconer are invited to attend the informal event.

### A READING BY TANYA HUFF

ON SPEC Magazine, the Edmonton Science Fiction and Comic Arts Society and the National Book Festival present a reading by Aurora nominee Tanya Huff, author of the *Last Wizard*, and *Gate of Darkness*, *Circle of Light*, 26 April at 7:30 pm in the Heritage Lounge, Athabasca Hall. A question and answer session will follow. Host: Campus Science Fiction Club.

### LOCAL BRANCH OF CANADIAN AUTHORS ASSOCIATION MEETING ON CAMPUS

The annual general meeting of the Edmonton Branch of the Canadian Authors Association will take place at 8 pm, 26 April, in the Faculty Lounge (tenth floor, Education South). Instead of listening to a guest speaker, there will be a winter's update. Each member will share with fellow writers information about his work, progress, projects planned and even distant dreams. Everybody welcome. Two dollar charge for nonmembers.

### ILFORD PHOTOGRAPHIC SEMINAR

Photographers and darkroom technicians are invited to attend a two-hour seminar 1 May. The seminar will be held in the studio of Photo Services, 106 Temporary Lab Building, from 10 am to noon. Anne Gray will show examples of the new 400 Delta film, the new FP-4 Plus, and the HP-5 Plus. The new XP-11 and Pan-F film will also be featured. Samples of film will be available in limited quantities for participants to use and evaluate. Advance registration is required. Call Dave Spearing, Supervisor, Photo Services, at 492-4185. Refreshments will be served.

## TUITION FEES AT SELECTED UNIVERSITIES 1990

	CANADIAN STUDENTS	VISA STUDENTS
UNIVERSITY OF ALBERTA	\$1,229	\$1,842
UNIVERSITY OF CALGARY	\$1,168	\$1,752
UNIVERSITY OF LETHBRIDGE	\$1,520	\$2,280
UNIVERSITY OF BRITISH COLUMBIA	\$1,848	\$4,620
SIMON FRASER UNIVERSITY	\$1,650	\$2,888
UNIVERSITY OF REGINA	\$1,624	\$2,680
UNIVERSITY OF GUELPH	\$1,638	\$5,626
MCMASTER UNIVERSITY	\$1,637	\$5,468
UNIVERSITY OF TORONTO	\$1,640	\$6,180
MCGILL UNIVERSITY	\$1,012	\$5,800
UNIVERSITY OF NEW BRUNSWICK	\$1,975	\$3,675
DALHOUSIE UNIVERSITY	\$1,770	\$3,470
UNIVERSITY OF P.E.I.	\$1,840	\$3,540

*Source:* Statistics Canada. Tuition and Living Accommodation Costs at Canadian Universities 1989-91, Catalogue 81-219 Annual

*Note:* Fees reported by semester, session, or course were recalculated into annual fees in order to allow comparisons with other institutions, using the assumption that students were taking a full course load. When a range of fees was given, the fee listed is the average of the highest and the lowest. Fees are for undergraduate students in arts.

## Tuition

Continued from page 1

The University has an obligation to lobby for greater student assistance and to provide more scholarships.

"The important thing for everyone to realize is that while the increases can be considered by many people to be logical, there still has to be big changes to the system. And it can't all be done on the backs of students," Mustapha said.

The Minister said, "The new policy accomplishes two objectives: it asks students to pay fees that are more reflective of the benefits they receive from their education and it allows institutions to raise additional revenues to help maintain program quality."

While the government insists that research indicates that higher tuition fees do not curtail enrollment, student leaders maintain the increases are slowly but surely making postsecondary education unaffordable for increasing numbers of people.

The trend is towards an elitist system, said Ross, maintaining that education should be a right not a privilege.



# Gary Prideaux: McCalla Professor

Linguistics is dedicated to an understanding of the nature of the mind, to the way language is used as a reflection of the mind, says Gary Prideaux (Linguistics and Associate Dean, Faculty of Graduate Studies and Research). In his work on how discourse is structured, he studies the way people package information when they speak and write.

“So much that we do in our lives hinges on how we use our language ... yet we don’t pay much attention to it. There is an unmined wealth to be explored. It’s exciting to think we might be able to learn a little about the way language is organized.”

During the next year, as a McCalla Professor, Professor Prideaux plans to continue a series of projects in psycholinguistics which he has begun with colleagues and graduate students. He will be conducting experiments on the way people construct narratives, both in written and oral form, focusing on how they use certain principles to organize and process information.

The first is the “given-new” principle. “When we communicate, everything isn’t fast-breaking news,” he elaborates. People share common information and they bring in new information strategically.

“We’re looking at how people organize their narratives using shared information as a bridging device in sentences.”

The experiments also examine “iconicity,” Professor Prideaux continues. “That’s a fancy way of saying language tends to map the events it represents. I’m interested in seeing how the principle of relatively direct mapping is manipulated and violated for stylistic effects.”

The third principle is “foregrounding,” he adds. “Some information is more salient than others and there are presumably ways of representing that syntactically.” As well, he notes, he and his colleagues will be looking at how these principles interact with one another.

The very nature of this research, being experimental, differs from traditional work in his field of linguistics, explains Professor Prideaux. “Much of the work in discourse has been very anecdotal. People look at a text or narration and analyze one particular situation. Our paradigm has been to go away from the single case study, to look at a controlled experimental situation and extract the principles people share in common.”

He believes that the principles (“kind of unconscious information processing techniques,” or strategies) are universal, although the grammatical encoding devices and constraints differ across languages. His work is in English but he hopes that colleagues in Japan may be able to set up a pilot project to look at the same issues in Japanese. “Japanese is totally unrelated to English,” he comments, “so you can test the same kinds of principles to assure yourself you’re not looking at a language specific phenomenon.”

Professor Prideaux anticipates several papers and conference presentations will result from the McCalla work. “By the end of the year, we should have all the data collected and analyzed,” he says.

Since joining the University of Alberta in 1966, on receiving his PhD from the University of Texas, Professor Prideaux has completed six books on experimental linguistics and numerous articles, his research primarily supported by the University and Social Sciences and Humanities Research Council grants (the latest in 1990). He is looking forward to devoting the next year to new aspects of that research. “I can’t communicate enthusiastically enough how exciting I find it.”

# Soviet North in deep ecological trouble, Riewe says

The Soviet Union will react to ecological problems in exactly the same way North Americans have—by choosing jobs instead of cleaning up the environment, says Rick Riewe, a visiting researcher with the Canadian Circumpolar Institute.

More than six million hectares

year into the Arctic Ocean. “There’s a witches’ brew of unbelievable proportions in the Arctic Ocean right now, and we have to act now in working with the Soviets to assist them in cleaning it up.”

These compounds are not broken down to the extent they are elsewhere because the Arctic has colder temperatures, reduced sunlight and shorter food chains, he explained. “They have much more impact at lower concentrations.”

The image southern Canadians have of the “Great White North” as a largely unoccupied, pristine environment is a myth, he said. Seldom does that misguided concept of the North include native peoples, he said. However, in the Soviet North where development is fueled by the systemic desire to meet production quotas, the indigenous people have been casualties of the process.

Life expectancy among indigenous people, who number about 900,000 across the Soviet North, has dropped markedly. Tuberculosis is prevalent. Housing standards are poor. And indigenous people in that country are concerned about their cultural survival in many regions where they now are significantly outnumbered by people who have come from other parts of the Soviet Union to work in the North.

The seminar series was sponsored by the Faculties of Home Economics and Extension, Canadian Circumpolar Institute, School of Native Studies, Canadian Home Economics Association, Women’s Studies, Alberta Home Economics Association and Canadian Studies.

of reindeer range has been destroyed in the last two decades, the extraction of nonrenewable resources has left huge scars on the land and destabilized the fragile ecosystems, and airborne pollution is being generated in staggering amounts, creating an Arctic haze, the University of Manitoba professor said.

“In the past 20 years Canadian scientists have detected an increasing variety of toxic materials, including pesticides, herbicides, heavy metals, industrial chemicals and radioactive fallout in our “Great White North. They’ve been found in the water, snow surfaces, the atmosphere and in the Arctic food chain.”

In the last of the popular “Human Ecology Issues in the North,” an interdisciplinary seminar series, Dr Riewe said, “I don’t think we’re foolish enough to think that the Soviets are any different than we are, especially when we start looking at the price tag.”

Focusing his remarks on the consequences of virtually unfettered development in the Soviet North over the past several decades, Dr Riewe said the region is nothing less than an ecological disaster, which is also affecting the Canadian North.

With the aid of slides, Dr Riewe, who has travelled in the Soviet North, explained that some large rivers dump as much as a cubic kilometre of toxic waste every

# High school students include U of A in summer plans

Junior and senior high school students are again showing great interest in the Summer Youth University (SYU) program.

Registration for SYU ’91 is slightly ahead of last year’s pace. So far, 234 students have signed up. A total of 650 students participated in last year’s sessions.

This is the seventh year for the summer campus program, coordinated by the Faculty of Extension. It introduces students to university subjects and helps them identify scholastic goals. They also learn about University admission requirements and prerequisites.

There are two nine-day sessions this year, 2-12 July and 15-25 July, and one five-day session, 15-19 July.

Featured are 237 classes from 38 Faculties and departments. Subjects include plant science, art and design, classics, film studies, economics, medical laboratory science, and educational psychology.

The educational psychology class, new this year, is already full for Session 1. Medical laboratory science is also pulling them in.

Also popular are two new classes from the Department of Zoology: Environmental Issues and Wildlife Biology.

The SYU program features hands-on experiments, visits to museums, field trips, discussions, and debates. Homework and exams are nonexistent.

Students can choose to stay on campus in the Lister Hall residence. For more information, call the SYU office in the Faculty of Extension, 492-5597.

Enquiring minds are introduced to geography, one of many subjects offered by SYU.



# NASA receives overwhelming membership support

The Non-Academic Staff Association contract negotiating team received a shot in the arm 10 April, as members voted at a special general meeting to support unanimously the position set out by the team during the current contract negotiations with the University.

Members also agreed that the staff association should not accept rollbacks and to send a petition to the Board of Governors expressing NASA’s dissatisfaction with the proposals put forward by the Board.

NASA Manager Mike Tamtom explained that the NASA negotiating team had placed a seven percent wage increase on the negotiating table. According to a 14 March document released by NASA, the Board is offering a three percent wage increase, including an across-the-board increase, except for Grades 1 and 2, of 2.34 percent and a 0.66 percent deferral from the 1990-91 benefit improvement.

Also factored in the Board’s proposal is a 0.77 percent increase for the cost of continuing the present level of regular benefits, a 0.24 percent increase for the cost of the public service pension plan and a 1.01

percent increase for the cost of merit and long service increments (including pension costs). With these increases factored into the calculations, the Board negotiating team calculates the total increase in compensation would amount to a 5.02 percent increase.

The Board is also proposing that temporary employees hired on or after 1 April 1991 be paid 75 percent of the grade assigned to their job, receive four percent of their total earnings as vacation pay, and not receive shift differential.

“...WE CANNOT ASSUME THAT THERE WON’T BE ANY MORE LAYOFFS.”

NASA members who spoke in favour of supporting their negotiating team stated that the Board negotiating position was an insult to NASA members. NASA Vice-President Kevan Warner spoke against sending a petition to the Board to express NASA members’ dissatisfaction with the proposals.

# University of Alberta Greater Campus Transit Service Study

## EXECUTIVE SUMMARY

Direct transit service to the University of Alberta was relocated for a period of about 20 months to facilitate the construction of the University LRT Station across 89 Avenue. The service has continued through a temporary location at 87 Avenue and 114 Street. In an effort to develop the best possible permanent resolution to transit service locations and operations to campus, a joint University and City of Edmonton committee was struck in September 1990 and charged with determining, designing and evaluating options for transit service to the greater campus area. The working committee consisted of a representative from two University units—Planning and Development and Physical Plant—and two City bodies—Edmonton Transit and Edmonton Transportation. The committee established terms of reference, objectives and evaluation criteria under which the work proceeded.

The participation of greater campus and community groups was invited at three major junctions—definition of the issues, preliminary presentation and review of the options, and review of the draft document. Participants included the five agencies of the south campus, the four neighbouring communities (Windsor Park, Belgravia, Garneau and McKernan), staff and student associations, Faculties housed along 89 Avenue, HUB commercial out-

lets and residents, affiliated colleges, and Materials Management.

From a process of review and discussion, six major alternatives were proposed, of which two were examined in detail. Following study of the issues, objectives, and evaluation criteria, it has been recommended that a one-way loop system on 89 Avenue from west to east be implemented as soon as LRT construction on the thoroughfare permits.

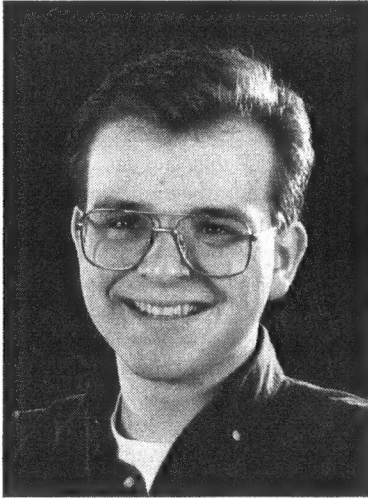
The proposed system allows for a single lane, one-way bus roadway from the northerly half of 114 Street, along 89 Avenue, and out 112 Street, for the use of buses, service and emergency vehicles only. This configuration will discourage through traffic and unauthorized access into the area, encouraging the use of drop-off zones on both 112 and 114 Streets for loading, taxis, couriers, and kiss ‘n’ ride passengers. The area of 89 Avenue directly adjacent to the LRT station hall, roughly in the area of “Rutherford Square,” will become a transit zone, with an island and two lanes for bus stopping. Heated shelters will be provided in the zone on the south side of the street and on the island. The Station Hall will provide additional waiting space, as well as direct access to the LRT from the bus zone.

A zone for two buses will be provided on 114 Street just south of the junction with 89 Avenue, to allow for alightings and loading at

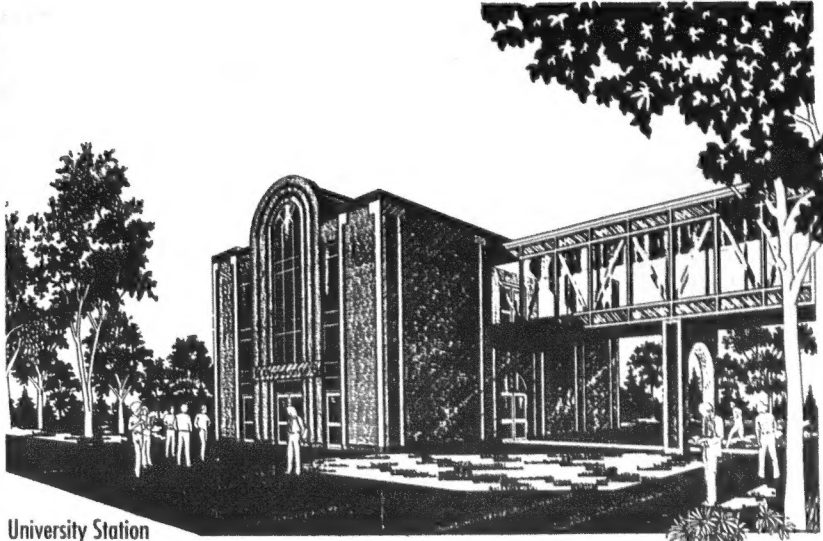
the west end of the street. The zone’s location is intended to discourage through traffic visually, to increase pedestrian safety and encourage crossing the street at the corner, and to eliminate any need for a wider roadway on 89 Avenue which might encourage parking of unauthorized vehicles.

To complement the “central” transit location on 89 Avenue, and to improve service to the northwest portion of campus, Edmonton Transit will be rerouting buses from Groat Road along 116 Street. This will introduce service to the Engineering precinct of the University. This improvement will require the creation of a couple of bus bays on the east side of 116 Street, so that traffic will not be impeded.

While environmental concern has been raised by all participants, no direct resolution to the problem can be seen, beyond the alleviation of pollution caused by the elimination of private vehicles. It has been agreed that short-term layovers will be permitted in the transit zone, and that Edmonton Transit will be investigating ways to shorten the layover period as much as possible in an attempt to alleviate further air pollutants. Consideration was given to buses being switched off during layovers in all but the coldest weather; this has not been recommended for Edmonton Transit because of operational and security reasons.



Randy Boissonnault



University Station

The committee identified four separate stages in the evolution of transit service to the University, dependent upon LRT expansion. These were:

- prior to operation of the University LRT Station;
- upon operation of the University LRT Station (August 1992);
- upon operation of the Crawford Centre Station (1996);
- upon operation of the Southgate Station (2000).

The design of the proposal will operate successfully throughout the four identified stages of consideration. However, it has been recommended that the University and City discuss the ultimate design for the transit centre and utilization of 89 Avenue to a further degree at the time that Southgate Station is to be built, when a greater level of information will be available.

It is anticipated that the reconstruction of the roadways to bus standards and to the configurations planned will cost in the order of \$1,033,000, with an additional cost, yet to be assessed, for the upgrading of the drop-off zones, and for landscaping. The cost of roadway con-

struction will be borne exclusively by the City of Edmonton. It has been recommended that changes to the drop-off zones and landscaping will be at the cost of the University. It should be noted that the estimate has not considered any additional costs associated with restoration of any other lands, adjacent or otherwise, affected by LRT construction.

It is expected that the work on the transit centre and the roadways may be implemented when LRT Station construction is advanced far enough to allow road restoration. This may occur in September or October 1991. Because of this uncertainty, and because of the termination in August of the lease agreement for the temporary transit site, immediate negotiations through the City of Edmonton must be undertaken to extend the lease to ensure uninterrupted transit service to the greater campus area.

While some objectives have not been met by the proposal and by the discussions to date, it is believed that this is the optimum solution for providing sufficient transit service to the University.

## RANDY BOISSONNAULT UN DES LAURÉATS DE LA BOURSE PETER LOUGHEED POUR 1990-91

Étudiant de la Faculté Saint-Jean en Etudes canadiennes, Randy Boissonnault est un des lauréats de la Bourse Peter Lougheed pour 1990-91. Boissonnault espère entreprendre des études en droit après son BA et ses collègues et amis pensent qu’il fera, tôt ou tard, une belle carrière politique.

D’ailleurs, sa récente élection en tant que vice-président externe de l’Association étudiante de l’Université de l’Alberta met en évidence des talents déjà bien rodés et reconnus dans plusieurs domaines: membre de la Gold Key Society, Morinville Junior Citizen of the Year (1989), Guide parlementaire à Ottawa (1990), etc. Musicien accompli (il joue de l’orgue depuis l’âge de 4 ans), Boissonnault aime également les sports et pratique ces derniers avec l’allant qu’il investit dans tout ce qu’il fait.

## Synthetic Peptides patents synthetic vaccine

Synthetic Peptides Inc has patented a synthetic vaccine for a very common bacteria which causes infection leading to severe illness and deaths in cancer, burn, transplant, cystic fibrosis and intensive care patients.

The bacteria call pseudomonas aeruginosa often resists antibiotic treatment. At present, there are no synthetic vaccines on the market. Companies, however, are racing to produce them because they are likely to be safer and more effective than traditional vaccines which

often contain a whole killed bacteria or virus.

The PA vaccine is one of several SPI projects and it’s expected that this vaccine or modifications of it may also be effective for other related, serious bacterial and fungal infections.

The work is being funded by the Alberta Heritage Foundation for Medical Research to the tune of \$400,000 in technology transfer funds to further develop the PA vaccine and the technology used to produce it.

“We believe this assistance will help us maintain our competitive advantage and accelerate the creation of a world-class drug development firm in Alberta,” said SPI President Robert Hodges.

SPI, founded five years ago, is involved in the production of sythetic peptides for use as drugs, vaccines and diagnostic tools.



## EVENTS

### TALKS

#### LAW

20 April, 9:30 am  
Saturday Morning at the Law School—"Employee Rights." Information: 492-3115. Law Centre.

#### CANADIAN INSTITUTE OF UKRAINIAN STUDIES

22 April, 3 pm  
Janusz Rieger, Catholic University, Lublin, "Linguistic Contacts in the Carpathian Regions" (with reference to the Carpathian Dialectological Atlas.) Cosponsor: Slavic and East European Studies, 436 Arts Building.

22 April, 7:30 pm  
Dr Rieger, "The Present Situation of Poles in Ukraine and Ukrainians in Poland." Cosponsor: Polish Cultural Society. Heritage Lounge, Athabasca Hall.

#### BIOMEDICAL ETHICS AND HUMANITIES

23 April, 12:30 pm  
"Cardiac Arrest: Is CPR the Answer for the Elderly?"—a discussion presented by the Graduate Bioethics Class. Bernard Snell Hall, Mackenzie Health Sciences Centre.

#### PHYSICS

23 April, 3:30 pm  
Jonathan J Halliwell, MIT, "Global Spacetime Symmetries in the Functional Schrodinger Picture." 631 Avadh Bhatia Physics Laboratory.

24 April, 3:30 pm  
AN Kamal, "Pion Photoproduction at Threshold and Low Energy Theorem—What's New?" 631 Avadh Bhatia Physics Laboratory.

#### CENTRE FOR INTERNATIONAL BUSINESS STUDIES

24 April, 11:30 am  
Hong Kong Forum. Ming Chan, University of Hong Kong, "Transitional Hong Kong: The 1991 Elections." Lung-kee Sun, Memphis State University, "The Hong Kong People: Culture and Personality." Berry Hsu, "Legal Developments." Yingfeng Xu, "Economic Prospects." \$20, lunch included. Registration: 492-2225. Stollery Centre, Business Building.

#### ENVIRONMENTALLY RELATED SEMINARS AND EVENTS

If you wish to have an environmentally related event listed under this section, please contact: The Environmental Research and Studies Centre, 492-6659.

*Forest Science*  
24 April, 3:30 pm  
Luiz Constantino, "Community Dependence on Forestry in the Prairie Provinces—Implications for Government Policies." 2-1 Mechanical Engineering Building.

*Soil Science*  
25 April, 12:30 pm  
Rongjing Xie, Environmental Research and Engineering, Alberta Research Council, "Assessing the Effect of an Industry Waste Product on Phosphate Adsorption-Desorption Energy." 2-36 Earth Sciences Building.

*Soil Science*  
2 May, 2:30 pm  
Sheila Luther, "The Mineralogy and Chemistry of Gypsum-Based By-Products of Phosphate Fertilizer Production." 2-36 Earth Sciences Building.

#### CANADIAN INSTITUTE FOR NORDIC STUDIES

24 April, 7:30 pm  
Charles Schweger, "Seeking Solace in Their Viking Past—Metaphor and Symbol in North Norwegian Archeology." 141 Arts Building.

#### ANTHROPOLOGY

25 April, noon  
Myrna Tonkinson, University of Western Australia, "Sisterhood or Servitude: Aboriginal and European Women on the Australian Frontier." 14-6 Tory Building.

26 April, noon  
Robert Tonkinson, University of Western Australia, "Aboriginal Nation Building in Australia." 14-6 Tory Building.

#### ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

26 April, 4 pm  
Myron F Goodman, Department of Biological Sciences, University of Southern California, "Fidelity Mechanisms in DNA Replication and SOS-Induced Mutagenesis." Presented by Genetics. CW410 Biological Sciences Centre.

#### ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH AND REHABILITATION MEDICINE

3 May, 10:30 am  
Anne Fisher, Department of Occupational Therapy, University of Illinois at Chicago, "Use of the Rasch Measurement in the Construction of Measures." 1009 UAH Education and Development Centre.

## ARTS

### EXHIBITIONS

#### FAB GALLERY

Until 21 April  
Michelle Lavoie—"The Politics of the Parts"—the final visual presentation in partial fulfilment of the requirements for the degree of MVA.

Until 21 April  
"Pressing Issues"—work by senior printmaking students. Gallery hours: Tuesday, Wednesday, Friday, 10 am to 5 pm; Thursday, 10 am to 8 pm; Sunday, 11 am to 5 pm; Saturday and Monday, closed. 1-1 Fine Arts Building.

#### MCMULLEN GALLERY

Until 2 June  
"Thirty Years of Inuit Art from the Collections of the Inuit Art Enthusiasts." Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm. Information: 492-8428, 492-4211. Walter C Mackenzie Health Sciences Centre.

### MUSIC

25 April, 8 pm  
Electroacoustic Music Concert. Convocation Hall.

# Job retraining need not be intimidating

## ADVISERS, FINANCIAL HELP ON STANDBY

If you are a nonacademic staff member whose job has been abolished, you still have access to the Human Resources Development Fund (HRDF), which will help pay for your retraining and development.

### WHEN AM I ELIGIBLE FOR RETRAINING?

When you have received your layoff notice. You don't have to wait until you are actually laid off to begin training.

### WHAT KINDS OF COURSES CAN I TAKE?

Your goal is to gain skills that will help you to find work. You can therefore attend any seminars or enroll in any courses toward this end. You are not limited to courses offered at the University.

Two training assistants are available to discuss your options with you. They can determine what type of retraining is your best bet, based on your experience, aptitudes, and skills.

### CAN I LEARN SKILLS UNRELATED TO MY FORMER POSITION?

Yes, but your best strategy is likely to build on the skills you have. A training assistant can help you to identify skills that are transferable to other jobs.

If learning a skill greatly increases your chances of obtaining employment, it is likely that HRDF will cover your costs.

### HOW MUCH MONEY IS AVAILABLE TO ME?

Staff who wish to learn new skills are usually funded up to a maximum of \$500. However, those

on layoff status can negotiate a higher maximum. If you have a specific training idea in mind that costs more than \$500, come in and discuss it with us.

### WILL THE HRDF STILL PREPAY COURSES FOR THOSE ON LAYOFF?

Yes.

### HOW CAN I FIND OUT MORE ABOUT THE TRAINING AND DEVELOPMENT PROGRAM?

Drop into the Personnel Services Office in Athabasca Hall, or call Shirley Leonard or Jane Toulouse, training assistants, at 492-4660.

## POSITIONS

*The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.*

### ACADEMIC RESEARCH ASSOCIATE, SOIL MICRO-MORPHOLOGY/SOIL MINERALOGY

This is a three-year academic position with a multidisciplinary team working in the area of soil micromorphology/mineralogy. The candidate will be responsible for the following: 1) Preparation and microscopic description of soil thin-sections according to the most recent internationally accepted procedures. 2) Operations of a transmission x-ray microcamera for thin-section analyses and interpretation of x-ray microdiffraction patterns. 3) Use of other submicroscopic analytical techniques such as FTIR, SEM, NMR, etc. for microfabric mineral identification. 4) Use of 'wet' chemical techniques for soil microfabric analyses; and 5) some teaching opportunities will be available.

We are seeking an individual with a PhD in soil micromorphology/soil mineralogy who is familiar with the application of microanalytical techniques to soil systems. The individual is expected to have a reasonably good background in soil clay mineralogy, soil micromorphology, geochemical modelling and soil chemistry. Good communication and interpersonal skills are required.

This is a three-year academic position with a salary range of \$24,000 to \$30,000 subject to continued funding. Letters of application, names and addresses of three referees, academic transcripts and a *curriculum vitae* should be sent to: S Pawluk/MJ Dudas, Department of Soil Science, University of Alberta, Edmonton, Alberta T6G 2E3.

The closing date for applications is 15 July 1991. In accordance with Canadian Immigration requirements,

this advertisement is directed to Canadian citizens and permanent residents.

### SUPPORT STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 12 April 1991. For a more up-to-date listing, please consult the weekly *Employment Opportunities Bulletin* and/or the postings in *PSSR*.

Positions available as of 12 April 1991.

*The limited number of vacancies is a result of the current Support Staff hiring freeze.*

*The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program.*

SENIOR FINANCIAL RECORDS CLERK (Grade 4), Housing and Food Services, (\$1,633 - \$2,013)

DEPARTMENTAL/EXECUTIVE SECRETARY (Grade 6), Business, (\$1,952 - \$2,433)

ADMINISTRATIVE ASSISTANT (COST COMPTROLLER) (Grade 8), Housing and Food Services, (\$2,296 - \$2,895)

*The following positions retain salary rates in accordance with the previous classification system and pay plan.*

CLERK TYPIST II (Trust), Dean of Dentistry, (\$1,350 - \$1,677)  
MEDICAL STENO (Trust), Medicine, (\$1,677 - \$2,143)  
ANIMAL ASSISTANT I (Trust/Term to 30 August 1991), Surgery, (\$1,350 - \$1,677)

DENTAL ASSISTANT II (Trust), Dean of Dentistry, (\$1,617 - \$2,054)

TECHNICIAN I (Trust), Psychiatry, (\$1,738 - \$2,234)

TECHNOLOGIST I/II (Trust), Genetics, (\$2,143 - \$3,018)

BIOCHEMISTRY TECHNOLOGIST I/II (Trust), Biochemistry, (\$2,143 - \$3,018)

TECHNOLOGIST I/II (Trust/Term to 30 June 1994), Pharmacology, (\$2,143 - \$3,018)

### POSTDOCTORAL/RESEARCH ASSOCIATE

An MRC program concerned with nucleoside-specific membrane transport system invites applications for a postdoctoral/research associate position. Candidates should have a PhD in biochemistry or a related field, experience in cell biology and a working knowledge of recombinant DNA technology. The project will attempt to clone by oocyte expression methods DNA encoding sodium/nucleoside cotransporter systems from cultured intestinal epithelial cells. Send résumé to: Research Associate Position, Department of Pharmacology, 9-70 Medical Sciences Building, University of Alberta.

### COORDINATOR FOR VOLUNTEERS, DEVONIAN BOTANIC GARDEN

A coordinator for volunteers is required at the Devonian Botanic Garden. Half-time with flexible hours. Must have organizational skills with experience in coordinating volunteers preferred. Grant funded position. Applications accepted until 22 April 1991. Phone Betty Hinkelman, 436-9662, or Gillian Ford, 987-3054.



## MAKE WAY FOR MEDIGAS

In conjunction with the University's gas cylinder management system, representatives of the firm Medigas Inc will be on campus 6 to 10 May. The purpose of their visit is to complete a campus-wide count of all Union Carbide (Linde) compressed gas cylinders in the University's possession.

To ensure an accurate count, team members will require access to all campus buildings. It is anticipated that the count will not involve any significant disruption of day-to-day activities.

While conducting the count, each supplier representative will carry identification cards issued by the University.

Cooperation on the part of the University community will be appreciated, says MM Craig (Materials Management).

## President's Athlete of the Month Award established

A new award for University of Alberta athletes was served up by President Paul Davenport at a pasta dinner 8 April.

The President's Athlete of the Month Award will be given to one Panda and one Golden Bear, beginning September 1991.

The two monthly winners will have their photos on display next to the Wall of Fame in the Van Vliet Centre. They will also receive congratulatory letters from the President.

And in keeping with the announcement's pasta theme, award winners will receive a dinner for two at Chianti Restaurant in Old Strathcona.

President Davenport announced the new award after serving dinner to about 75 University athletes and coaches at University house.

The guests were the 1990-91 CIAU All-Canadian choices and competitors at the recent CIAU Nationals.

The President served dinner with the help of Gerry Glassford, Acting Vice-President ((Development and Community Affairs); Jane Watkinson, Dean, Faculty of Physical Education and Recreation; and Dan Syrotyuk, Director, Research and Sport Services, all of whom performed their tasks in traditional chef hats and aprons.

## FACULTY STUDIES, 1991-92

Applications for faculty studies (Cameron and Rutherford Libraries) for the 1991-92 year are now being accepted. Application forms and the guidelines for allocation are available from department offices or the Office of the Director of Libraries, 5-02 Cameron Library.

Closing date for applications is 1 May 1991.

## Ads

### ACCOMMODATIONS AVAILABLE

RENT - Furnished, two storey sabbatical home in Groat Estates Architectural Heritage Area. Five minutes to University. Four bedrooms, two baths, fireplace. 15 June - 12 months. \$950/month plus utilities. 452-6694.

HOUSE TO RENT/SHARE - Furnished sabbatical house available June 1991 for one year. Four bedrooms, 3 1/2 bathrooms. References. 437-7924 (please leave message).

RENT - Belgravia. Large three bedrooms/studies up; three room suite down. Excellent condition; superb garden. Close ravine. Walk to University. \$1,000 unfurnished; \$1,250 beautifully furnished. August-May (flexible). Phone 436-1946.

SALE BY OWNER - University area apartment/condominium. Two bedrooms, two bathrooms, fireplace, balcony, five appliances; sauna in building. \$84,900. Leave message, 439-2445.

SALE - Grandview. Best value with unrivaled view. Five minutes to University. Move-in condition. Open house, Sunday, 1-4 pm. 6203 129 Street. Valerie/Ann, Spencer Realty, 435-0808.

SALE - 10930 87 Avenue. Revenue property. \$14,400/year income. Six bedrooms, two fridges, two kitchens, two bathrooms, two hot water heaters (33 gallons each, in parallel). \$135,000. To view, 433-8302.

RENT - Belgravia. Semi-bungalow, family or 4-5 students. Three bedrooms, bath up; two bedrooms, bath, kitchenette in basement can be sublet; close to University. 1 May. \$1,000/month. 437-6738/492-3440.

RENT - Gainsborough, furnished one bedroom executive suite; spectacular view of river valley, sunroom, fully equipped. \$1,475/month, Western Relocation, 434-4629.

RENT - Parkallen, furnished two bedroom bungalow, renovated basement, hardwood floors, bright and clean, fully equipped. \$1,190/month, Western Relocation, 434-4629.

RENT - Fort Saskatchewan. Furnished, one bedroom apartment, fully equipped, river view. \$795/month, Western Relocation, 434-4629.

RENT/SALE - Glenora. Perfect location, large three bedroom bungalow, hardwood floors. Rent \$1,000/month, Western Relocation, 434-4629.

RENT/SALE - Beautiful new character home across from park and one block from river valley. Three bedrooms, loft, fireplace. Rent \$1,495/month, Western Relocation, 434-4629.

RENT - Five bedroom, two bathroom, two kitchen house, 109 Street 85 Avenue. 1 May. 437-3457.

RENT - Three bedroom furnished Glenora bungalow, double garage, fireplace, large yard. July 1991 - August 1992, 451-6178.

RENT - Windsor Park. Three storey, older home near University. Eleven rooms, fireplace, sauna, porches, yards, double garage, parking. Sabbatical July 1991 to July 1992. Telephone 433-6769 evenings.

SALE - Two storey 2,348 square feet, \$159,500; family room fireplace, double and single garages, finished basement. Super house for large family - close to excellent schools, Petrolia. Liz Crockford, Spencer Realty, 435-0808.

SALE - Riverbend. \$174,800. Close to river valley, four bedrooms, oak kitchen, skylight, french doors, immaculate neutral decor, west backyard patio. Liz Crockford, Spencer Realty, 435-0808, 434-0555.

CHRISTMAS AT PANORAMA - Delightful, newly furnished one bedroom time-share unit on ski hill. Sleeps four. Available 21 to 28 December 1991. Joyce Relyea, 922-4080.

RENT - Artspace Housing Co-op. New building overlooks river valley. Near downtown, buses, good security. Pets, two bedroom suites, \$650. Join a community, 426-4064 or 425-7554.

VISITING TORONTO? Bed and breakfast in our restored downtown home. From \$45 daily. Furnished apartment available on weekly basis. (1-4 people). Ashleigh Heritage Home. (416) 535-4000.

RENT - Windsor Park. Unfurnished two bedroom house, near University. Available June. \$1,100/month. 432-0626.

RENT - Four bedroom, two storey house at 10958 88 Avenue. Great home in superb location (next to campus). \$1,300/month. Call Reg, 439-7000.

RENT - St Albert. Furnished, three bedroom bungalow. Six appliances, garage, fireplace, no pets. 1 July. \$875/month. 458-6609.

RENT - Parkallen. Bungalow, three bedrooms, one in fully finished basement. Two baths, double garage. \$800 unfurnished or \$950 furnished. 434-4882 evenings.

SALE - Grandview. Four/split. \$179,900. Excellent location. West backyard. Upgraded kitchen. Bathrooms, two fireplaces, sauna, finished basement. Sherry Mailo, Re/Max, 438-7000.

RENT - Hawaiian condo, downtown Kona. Inexpensive, sleeps three. 439-0106.

RENT - Walk to University (one minute) from this one bedroom condo. Fully furnished. Available May, June, July, August. Phone 432-9559, 492-7681.

SALE - Exceptional bungalow on treed lot. Walk to University and Hospitals. Hardwood under carpets, double garage. Big dining room. Bright and attractive. Pat Von Borstel, Spencer Real Estate, 435-0808.

RENT - Acreage, close Sherwood Park. Minimum one year, 1 July. Four

bedrooms, three bathrooms, fireplaces, hottub. Partly furnished, \$1,200. 922-2585.

RENT - Bright, clean, furnished, two bedroom house, walking distance to University. July 1991 - July 1992. 435-2154.

RENT - Aspen Gardens. Furnished five bedroom bungalow, one year, 1 August. Large kitchen, playroom, deck, fenced backyard. Walk to ravine, schools, shopping. Five kilometres to University. \$1,000 plus utilities. 437-2282.

RENT - Fully furnished sabbatical home, four bedroom. July - twelve months. \$1,000/month, 438-1626, 451-1719.

SALE - Millcreek. Spacious character home, four bedroom, den, double lot, charismatic! Val/Ann, Spencer Realty, 435-0808.

SALE - Blue Quill Estates. Gorgeous, gorgeous four/five bedroomed residence with three bath, triple garage, two years old. Ann/Val, Spencer Realty, 435-0808.

### ACCOMMODATIONS WANTED

DOCTORAL STUDENT looking for housesitting job. May to August 1991. University area. Phone 435-6253.

PROFESSIONAL businesswoman wishes to housesit, long or short term. References provided. Call Dianne, 487-3878.

EXCHANGE - Professional couple seek house swap in Toronto for one year from August 1991. We have furnished home by the University of Alberta. Call Pat Campbell (days) (403) 425-0266, (evenings) (403) 437-1790.

RESPONSIBLE WORKING WOMAN will housesit. Good with plants and pets. Two months minimum, Donna, 454-6373.

PROFESSOR AND DAUGHTER seek housesitting/rental condo/home within walking distance of University, one year minimum beginning June/July 1991. Nonsmokers. References available. Call Donna, 492-5971/432-7648.

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therapy. 436-8059.

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annually. The University has one of North  
America's outstanding libraries, with  
collections of over 3 million printed volumes,  
2.5 million microform volumes, 700,000  
government documents, and 20,000 serial  
subscriptions.

The Vice-President (Academic) is the  
University's senior Vice-President, responsi-  
ble for providing leadership and vision in  
setting the overall academic priorities and  
direction for the University. Reporting to  
the Vice-President (Academic) are 18 Deans  
of Faculties, comprising 85 academic  
departments and 1600 faculty members,  
with a combined budget of \$225 million.  
The Vice-President (Academic) has general  
responsibility for the coordination of  
admission and academic standards, enrol-  
ment levels, academic programs, and matters  
relating to the academic staff agreements.  
Candidates will have a distinguished record  
of teaching and research, and experience in  
academic administration.

Those members of the University community  
who would like to suggest the names of  
possible candidates for this position should  
write to the President as soon as possible. The  
committee intends to begin interviews in early  
June. Those wishing to be considered for the  
position are urged to submit a curriculum vitae  
by **May 1, 1991** to

Dr Paul Davenport, President  
Room 3-1 University Hall  
University of Alberta  
Edmonton, Alberta  
Canada T6G 2J9  
Telephone: (403) 492-3212

The University of Alberta is committed to the  
principle of equity in employment. The  
University encourages applications from  
aboriginal persons, disabled persons, members  
of visible minorities and women.

Members of the University of Alberta commu-  
nity who have comments about this search are  
invited to write to Dr Paul Davenport, Chair of  
the Search Committee, or to contact any of the  
Committee members.

The membership of the Search Committee  
follows:

Dr Paul Davenport, *Chair*  
Mr Sandy Pearson, *Board of Governors*  
Chancellor Sandy Mactaggart, *Board of Governors*  
Dr Alfred Fisher, *teaching faculty*  
Dr Kanhaya Gupta, *teaching faculty*  
Dr T Bryant Moodie, *teaching faculty*  
Dr Patricia Clements, *Deans' Council*  
Dr Robert Silverman, *Chairs' Council*  
Dr. James G Marino, *AASUA*  
Mr Jason Forth, *Students' Union*  
Mr Ian McCormack, *Students' Union*  
Ms Brenda Blacklock, *Graduate Students' Assoc*  
Mr Martin Connors, *NASA*

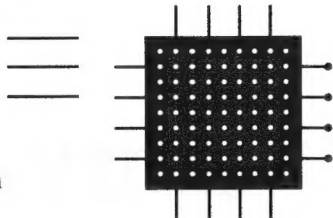
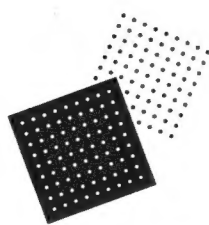
Computer

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- Silicon Graphics Canada
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The Campus Computing Symposium committee gratefully  
acknowledges the sponsorship of these vendors.

The vendors will be giving presentations in CAB 265 on 1 May  
between 09:00 and 17:00. Further details are available at the  
vendor displays.